

# ESIP Data Model Cluster

ESIP Summer Mtg

20 July 2018  
Tucson, AZ

# Mission of the Data Model Cluster

Support efforts to advance existing and developing data models for earth system science data.

Discussion and project topics will likely involve

- Existing abstract data models (e.g., CF and OGC)
- Web APIs, traditional APIs, and related data models (e.g., OPeNDAP and OGC WCS)
- File formats, other encodings, and related data models (e.g., netCDF, HDF, GRIB)

Current efforts include:

- Supporting efforts to advance netCDF-CF
- Investigating OGC MetOcean Profile for OGC WCS 2.1

## Two tracks

- Domain specific
  - GRIB, OGC MetOcean profiles
- Not domain specific
  - netCDF, OPeNDAP, HDF, etc.

## Standardized definitions:

- data model, data formats, data specification, data standard

[http://wiki.esipfed.org/index.php/Data\\_Model](http://wiki.esipfed.org/index.php/Data_Model)

<http://www.lists.esipfed.org/mailman/listinfo/esip-datamodels>

## Outreach & Education -

- start with domain neutral base layer;
- Domain specific layer

Organize sessions at AGU, GSA, EGU, ESIP, etc.

Help architecting applications using data

thredds.ucar.edu

# Cluster activities

## Regular GoToMeeting Telecons

- Discussion
  - Next steps for cluster
  - Specific projects discuss topics
- Updates on related projects
- Informational presentations

## Possible presentations:

- OGC MetOcean profile WCS - data model - presentation by Pete T / Steve O, Paul
- GRIB - data model
- CF data model - standard names, etc
- GSN (Scott Peckham)

Wiki pages

GitHub Repo

# Discussion Topics

- Subsetting on natural axes
- Process around metadata controlled vocabs
  - e.g., units and CF standard names
- OGC Testbed 14
  - Swath Data and the CF Convention